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### Her-2/neu (erbB-2) protein

<b>Cat #</b> HER25-R-20	Recombinant (E. Coli) Her-2/neu(erbB-2) protein, purified	<b>SIZE:</b> 20 ug
<b>Cat #</b> HER25-R-100	Recombinant (E. Coli) Her-2/neu(erbB-2) protein, purified	<b>SIZE:</b> 100 ug

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HER-2/neu (erbB-2) encodes an 185-kDa orphan receptor tyrosine kinase that is constitutively active as a dimer and displays potent oncogenic activity when overexpressed. Herstatin, as the product of alternative HER-2 transcript, retains intron 8. The herstatin mRNA is expressed in normal human fetal kidney and liver, but is at reduced levels relative to p185HER-2 mRNA in carcinoma cells that contain an amplified HER-2 gene. Herstatin appears to be an inhibitor of p185HER-2, because it disrupts dimers, reduces tyrosine phosphorylation of p185, and inhibits the anchorage-independent growth of transformed cells that overexpress HER-2.

#### Synonyms:

NEU, NGL, HER2, TKR1, HER-2, c-erb B2, HER-2/neu, Receptor tyrosine-protein kinase erbB-2, EC 2.7.10.1, p185erbB2, C-erbB-2, NEU proto-oncogene, Tyrosine kinase-type cell surface receptor HER2, MLN 19, CD340 antigen.

#### Source

Human Her2/Herstatin or ErbB-2 Human Recombinant (43.4 kDa protein containing 397 aa) was expressed in E.coli and purified (>95%). The amino acid sequence of the recombinant human herstatin is 100% homologous to the amino acid sequence of the human herstatin without signal sequence.

#### Human Her2 Amino Acid Sequence:

MTQVCTGTD	KLRLPASPET	HLDMLRHLYQ	GCQVVQGNLE
LYLPTNASL	SFLQDIQEVQ	GYVLIAHNQV	RQVPLQRLRI
VRGTQLFEDN	YALAVLDNGD	PLNNTTPVTG	ASPGGLRELQ
LRLTEILKG	GVLIQRNPQL	CYQDTILWKD	IFHKNNQLAL
TLIDTNRRA	CHPCSPMCKG	SRCWGESSED	CQSLTRTVCA
GGCARCKGPL	PTDCCHEQCA	AGCTGPKHSD	CLACLHFNHS
GICELHCPAL	VTYNTDTFES	MPNPEGRYTF	GASCVTACPY
NYLSTDVSG	TLVCPLHNQE	VTAEDGTQRC	EKCSKPCARG
THSLPPRPAA	VPVPLRMQPG	PAHPVLSFLR	PSWDLVSAFY
SLPLAPLSPT	SVPISPVSVG	RGPDPDAHVA	VDLSRYEG

#### Form/Storage and Stability:

It is supplied in liquid (20 ug/40 ul or 100 ug/200 ul) in 0.05 mM Acetate buffer pH4 or lyophilized in the same buffer.

Reconstitute powder in 0.1M Acetate buffer pH 4.0 at 10 ug/ml and then dilute in desired buffers. and let the lyophilized pellet dissolve completely. At higher concentrations the solubility of her2 is limited. Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time. The lyophilized protein remains stable until the expiry date when stored at -20°C.

**Biological Activity:** Not tested.

#### Recommended usage

Western blot and ELISA. Other applications such as use in cell culture have not been tested and it should be optimized.

#### References:

Jhabvala-Romero F, (2003) Oncogene. 22(50): 8178-86; Azios NG (2001) Oncogene. 20(37): 5199-209; Doherty JK, (1999) Proc Natl Acad Sci U S A. 96(19): 10869-74.

*\*This product is for In vitro research use only.*

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#### Related material available from ADI

HER25-R-20-100

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